

```

┆ ∀[T:Type]. ∀[P:T → ℙ]. ∀[C:ℙ]. ((∃x:T. (C ⇒ (P x))) ⇒ C ⇒ (∃x:T. (P x)))
|
BY RepeatFor 3 ((UD THENA Auto))
|
[1]. T: Type
[2]. P: T → ℙ
[3]. C: ℙ
┆ (∃x:T. (C ⇒ (P x))) ⇒ C ⇒ (∃x:T. (P x))
|
BY RepeatFor 2 ((D 0 THENA Auto))
|
4. ∃x:T. (C ⇒ (P x))
5. C
┆ ∃x:T. (P x)
|
BY D 4
|
4. x: T
5. C ⇒ (P x)
6. C
┆ ∃x:T. (P x)
|
BY (InstConcl [x]. THENA Auto)
|
┆ P x
|
BY D 5
| \
| 5. C
| ┆ C
| |
1 BY NthHyp 5
| \
| 5. C
| 6. P x
| ┆ P x
|
BY NthHyp 6

```

Extract:

```

λf,c. let x,g = f in <x, g c>
  where f : ∃x:T. (C ⇒ (P x))
        c : C
        g : C ⇒ (P x)

```